BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of work: Estimate for Providing and Erection of Rain Water Racharging Pits at Vidyaranyapura Main Road, Doddaommasandra Main Road, Ramachandrapura Main Road and 2nd Block BEL Layout in Ward No. 10, Vidyaranyapura Sub Division.

				Estimate Cost Rs.					1990000.00
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-2.2 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width **in Hard soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, **Page No. 5 / Item No. 2.3/ PWD SR 2014-15**	Cum							
	Main Pit		20	3.142x1.3x1.3		3.00	79.65		
				4					
							79.65	259.70	**20685.00**
	Basic Rate	245.00							
	Area Weightage @ 6%	14.70							
	Total	**259.70**							
2	KSRRB M2900-2.1: Laying reinforced cement concrete pipe NP4 / prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets complete as per specifications, **A.1000 mm dia, No. 244 / Item No. 34.3 PWD SR 2014-15**	M							
			20	3.00			60.00		
							60.00	11866.70	**712002.00**
	Basic Rate	11195.00							
	Area Weightage @ 6%	671.70							
	Total	**11866.70**							
3	KSRB 2.8 : Providing and filling in foundation with granite / trap broken metal 100mm, and down size, with approved sand including had packing, ramming, watering, including cost of all materials and labour with all lead and lift, complete as per specifications. Specification. No. KBS, **Page No. 6 / Item No. 2.15 / PWD SR 2014-15**	Cum							
			20	3.142x1.0x1.0		0.60	9.43		
				4					
							9.43	1926.02	**18155.00**
	Basic Rate	1817.00							
	Area Weightage @ 6%	109.02							

Sl No	Description of item	Unit	No.	L	B	D	Qty	Rate	Amount
	Total	**1926.02**							
4	0734 - Supply and Providing Aggregate 53 mm nominal size PWD SR 2014-15 (P.I / I. 29)	Cum							
	Inside the Ring		20	3.142x1.0x1.0		0.60	9.43		
				4					
	Outside the Ring		20	3.142x1.0x3.00		0.15	7.07		
							16.50	720.00	**11877.00**
5	0750 - Supply and Providing Aggregate 40 mm and below PWD SR 2014-15 (P.II / I. 30)	Cum							
			20	3.142x1.0x1.0		0.60	9.43	800.00	**7541.00**
				4					
6	0749 - Supply and Providing Aggregate 20 mm and below PWD SR 2014-15 (P. II / I. 33)	Cum							
			20	3.142x1.0x1.0		0.60	9.43	1000.00	**9426.00**
				4					
7	0731 - Supply and Providing Sand PWD SR 2014-15 (P.II / I. 56)	Cum							
			20	3.142x1.0x1.0		0.60	9.43	1450.00	**13668.00**
				4					
8	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, **No. 13/ Item No. 4.11/ PWD SR 2014-15**	Cum							
			20	3.142x1.0x1.0		0.10	1.57		
				4					
							1.57	5952.96	**9352.00**
	Basic Rate	5616.00							
	Area Weightage @ 6%	336.96							
	Total	**5952.96**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
9	KSRB 4.9.1: **Providing mild steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 **Page No. 17 / Item No. 4.45 / PWD SR 2014-15**	Qtl							
	60 Kg / Cum		0.60	1.57			**0.94**	7828.10	**7379.00**
	Basic Rate	7385.00							
	Area Weightage @ 6%	443.10							
	Total	**7828.10**							
	Ordinary Soil								
10	KSRRB 300-2 : Earth work excavation by manual means in Hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3 **Page No. 138 / Item No. 19.2 / PWD SR 2014-15**	Cum							
	For CC Road		1	60.00	5.00	0.15	45.00		
			1	23.00	5.00	0.15	17.25		
			1	40.00	4.80	0.15	28.80		
			1	34.00	4.20	0.15	21.42		8502.73
							112.47	103.88	**11683.00**
	Basic Rate	98.00		70					
	Area Weightage @ 6%	5.88		5.6					
	Total	**103.88**		75.6					
11	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2014-15**	Cum							
	RCC Road		1	60.00	5.00	0.15	45.00		
			1	23.00	5.00	0.15	17.25		
			1	40.00	4.80	0.15	28.80		
			1	34.00	4.20	0.15	21.42		
							112.47	4757.28	**535051.00**
	Basic Rate	4488.00							
	Area Weightage @ 6%	269.28							
	Total	**4757.28**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
12	SRRB M2600-3: Providing & fixing 20 mm thick compressible fibre board in expansion joint complete as per drawing & technical specification complete as per specifications, MORTH specification No. 2605, **No. 233 Item No. 31.3 PWD SR 2014-15**	M							
	For CC Road		6	5.00			30.00		
			2	5.00			10.00		
			4	4.80			19.20		
			3	4.20			12.60		
							71.80	138.24	**9926.00**
	Basic Rate	128.00							
	Area Weightage @ 8%	10.24							
	Total	**138.24**							
13	KSRB- 4-1.5 : Providing and laying in position plain cement concrete of **mix M20 with OPC cement @ 300 kgs, with 20mm** and down size graded granite metal coarse aggregates @ 0.64 cum and fine aggregares @ 0.43 cum with superplastisiser @ 3lts confirming to IS9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2, **No. 12/ Item No. 4.5/ PWD SR 2014-15**	Cum							
	RCC Road		1	60.00	5.00	0.125	37.50		
			1	23.00	5.00	0.125	14.38		
			1	40.00	4.80	0.100	19.20		
			1	34.00	4.20	0.125	17.85		
							88.93	5744.14	**510798.00**
	Basic Rate	5419.00							
	Area Weightage @ 6%	325.14							
	Total	**5744.14**							
14	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift **Page No. 171 / Item No. 22.7 / PWD SR 2014-15**	Sqm							
			1	60.00	5.00		300.00		
			1	23.00	5.00		115.00		
			1	40.00	4.80		192.00		
			1	34.00	4.20		142.80		
							749.80	97.20	**72881.00**
	Basic Rate	90.00							
	Area Weightage @ 8%	7.20							
	Total	**97.20**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
15	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km	Cum							
	Main Pit		20	3.142x1.3x1.3 / 4		3.00	79.65		
			1	190.00	1.00	0.90	171.00		
							250.65	73.57	**18440.00**
	Average weight of earth 1.28 tonne / kg for 2x1.28x2.00=5.12	5.12							
	Add loading and unloading charges Vide item no.17.1 P.no.130	63.00							
		68.12							
	Area Weightage @ 8%	5.45							
	Total	**73.57**							
16	Total						1958460.60 / 19584.00		**1968677.00**
17	Third Party Inspection Charges 1%								**19687.00**
							11956.00		
18	Miscesallaneous Charges						~~11956.00~~		**1636.00**
								Total	**1990000.00**

(Rupees Ninteen Lakhs Ninety Thousand Only)

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2014-15.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

~~Assistant Engineer~~

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranayapura Sub Division

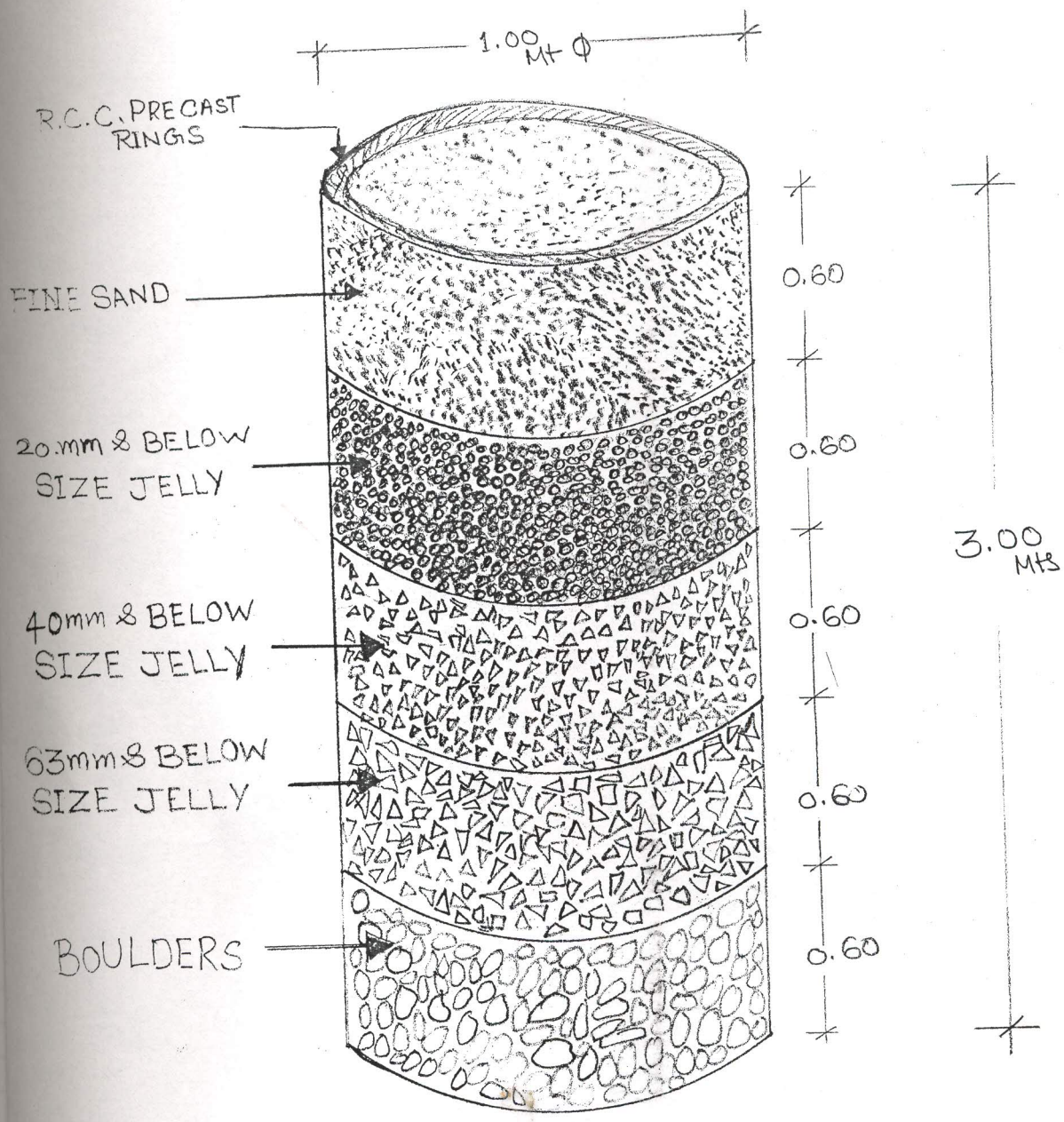
Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Sanction for Rs.....
Administrative Approval
Accorded for Rs 19.90 lakhs
is accorded under head.....
P-0541
registered as CE No. 121 Dt 11.02.15 Subject
to Conditions contained in enclosed memo
No...../.....Dr.....
AE/JE TA SE (BTP) CE (~~BTP~~)

Technical Sanction for Rs. 19.90 L.
Nineteen lakhs Ninety Thousand
only
Registered 60 Subject
to conditions
No: 353 Dt. 11/02/15
AE/JE 11/02
EE (BTP.Div.)

(YNK)

3180



CROSS SECTION OF RAIN WATER RECHARGING PITS

13/7/11